

Amendments to the Claims:

This listing of claims replaces all prior listings, and versions, of claims in the application:

Listing of Claims:

Claims 1-43 (Cancelled)

44. (Currently amended) Apparatus for a handheld dual mode mobile communication device useable by a user, said apparatus comprising:

a single, integrated device housing of a single section, said single integrated device housing having a longer dimension and a shorter dimension, the longer dimension defining a major axis extending between a top side surface and a bottom side surface of the housing; that does not include two or more hinged housing sections;

a voice communication interface configured in the device housing for operating the device in a voice mode of operation, the voice communication interface comprising a speaker, a display and a microphone positioned within the single, integrated device housing, and the dual mode mobile communication device, when used in the voice mode, is oriented with the top side surface positioned at a top of the device housing;

a data communication interface configured in the device housing for operating the device in a data mode of operation, the data communication interface comprising the display and a complete alphanumeric keyboard laid out in the QWERTY style (QWERTY keyboard), the QWERTY keyboard being positioned within a front surface of the single, integrated device housing, and the dual mode mobile device, when used in the data mode, is oriented with the side surface positioned at a top of the device, keys of the QWERTY keypad including letter keys that further have numbers associated therewith; and

wherein the voice communication interface and the data communication interface are configured in the single, integrated device housing such that the speaker is positioned at the top of the device housing, the display is positioned below the speaker, and the QWERTY keyboard and the microphone are positioned below the display;

45. (Currently amended) The apparatus for the dual handheld mode mobile communication device of claim 44, wherein the single, integrated device housing further comprises a back surface, the device having a generally rectangular shape.

46. (Cancelled)

47. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 45, wherein the device housing further comprises a plurality of side surfaces connecting the front surface to the back surface, the plurality of side surfaces including a top side surface and a bottom side surface.

48. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 47, wherein the speaker and display of the voice communication interface are positioned on the front surface of the device housing and the microphone is positioned on the bottom side surface of the device housing.

49. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 44, wherein the microphone is positioned below the QWERTY keyboard.

50. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 44, wherein the speaker, display, QWERTY keyboard, and microphone are each aligned along ~~a vertical reference line~~ the major axis defined through the device housing.

51. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 44, wherein the display and the QWERTY keyboard are aligned ~~along the major axis defined~~ along a vertical reference line through the device housing, and wherein the speaker and microphone are offset from the vertical reference line.

52. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 44, wherein the display is rectangular.

53. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 44, wherein the QWERTY keyboard includes a plurality of letter keys, a plurality of function keys and a space bar key.

54. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 53, wherein the plurality of function keys include a backspace key, an enter key and a delete key.

55. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 53, wherein the QWERTY keyboard further includes a NTJM lock key and a CAP lock key, wherein the NIJM lock key and the CAP lock key are positioned on either side of the space bar key.

56. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 44, ~~wherein the QWERTY keyboard includes a plurality of letter keys,~~ wherein approximately half of the letter keys of the QWERTY keyboard are positioned on a left hand side of the device housing and approximately half of the letter keys of the QWERTY keyboard are positioned on a right hand side of the device housing.

57. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 56, wherein the letter keys on the left hand side of the device housing are tilted at a negative angle with respect to a vertical reference line through the device housing and the letter keys on the right hand side of the device housing are tilted at a positive angle with respect to the vertical reference line.

58. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 57, wherein each key on the left hand side is tilted at a common negative angle with respect to the vertical reference line and wherein each key on the right hand side is tilted at a common positive angle with respect to the vertical reference line,

59. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 58, wherein the common negative angle and the common positive angle are complementary angles,

60. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 57, wherein the letter keys are oblong shaped.

61. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 60, wherein the oblong shaped letter keys are oval shaped.

62. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 60, wherein the oblong shaped keys are rectangular shaped.

63. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 60, wherein the oblong shaped keys are diamond shaped.

64. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 56, wherein the letter keys are organized into three rows of keys, wherein each key in each row of keys is horizontally aligned across a front surface of the device housing with the other keys in the row of keys.

65. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 56, wherein the letter keys are organized into three rows of keys, wherein the keys in each row of keys are configured along an arc across a front surface of the device housing.

66. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 65, wherein the arc is convex.

67. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 65, wherein the arc is concave,

68. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 56, wherein the plurality of letter keys are symmetrically shaped.

69. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 68, wherein the letter keys are square shaped.

70. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 68, wherein the letter keys are circular shaped.

71. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 44, further comprising a serial port mounted along a side surface of the device housing.

72. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 44, further comprising at least one auxiliary input/output device mounted along a side surface of the device housing.

73. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 72, wherein the auxiliary input/output device is a thumbwheel.

74. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 72, wherein the auxiliary input/output device is a LED.

75. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 44, further comprising:

a microprocessor, coupled to the transceiver, the display, the QWERTY keyboard, the microphone and the speaker, for controlling the operation of the device.

76. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 75, further comprising:

a memory store for storing an operating system and one or more application programs that are executed by the microprocessor, the one or more application programs including at least a voice communication module and a data communication module;

wherein the voice communication module controls the voice communication interface when the device is in the voice mode of operation and the data communication module controls the data communication interface when the device is in the data mode of operation.

77. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 76, wherein the one or more application programs further include a personal information manager application program.

78. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 44, wherein the transceiver includes a pair of transmitter/receivers, a first transmitter/receiver for sending and receiving voice communications and a second transmitter/receiver for sending and receiving data communications,

79. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 44, wherein the transceiver includes at least one antenna, a transmitter and a receiver coupled to the at least one antenna, and a digital signal processor for communicating with the transmitter and the receiver.

80. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 44, further comprising a short range RF communications system.

81. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 44, wherein the transceiver sends and receives voice communications to and from a wireless voice network and wherein the transceiver sends and receives data communications to and from a wireless data network.

82. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 81, wherein the wireless voice network is the GSM network and the wireless data network is the GPRS network.

83. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 76, wherein the memory store includes a file system for storing user information in the dual mode device.

84. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 44, wherein the single, integrated housing includes a front surface, a rear surface, and a plurality of side surfaces that couple the front surface to the rear surface.

85. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 84, wherein the speaker, display, QWERTY keyboard and microphone are mounted within the front surface of the device housing.

86. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 84, wherein the QWERTY keyboard is symmetrically positioned from two of the side surfaces in the front surface.

87. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 84, further comprising a thumbwheel input device mounted within one of the side surfaces adjacent to the display.

88. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 84, further comprising a thumbwheel input device mounted within the front surface.

89. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 44, further comprising:
an infrared data port for wireless transmitting and receiving data with another mobile communication device having a similar infrared data port.

90. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 44, further comprising:
a mode key for switching the device between the voice mode of operation and the data mode of operation.

91. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 84, wherein the front, rear and plurality of side surfaces are formed using two separate device housing sections coupled together to form the single, integrated device housing.

92. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 91, wherein the two separate device housing sections are coupled together using a plurality of fasteners.

93. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 92, further comprising a single circuit board for mounting the display, keyboard and speaker, the single circuit board being positioned within the two separate device housing sections and maintained in place using the plurality of fasteners.

94. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 44, further comprising:
a personal information manager (PIM) interface comprising the display, the QWERTY keyboard, and a PIM application program for operating the device in a PIM mode of operation.

95. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 94, wherein the PIM application is configured to generate and store a plurality of PIM data items in a PIM database stored on the dual mode mobile communication device, the PIM data items including calendar data items, appointment data items and/or task data items.

96. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 94, wherein the PIM application interacts with the voice communication interface to manage and process received voice calls and voice messages at the dual mode mobile communication device.

97. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 94, wherein the PIM application interacts with the data communication interface to manage and process received data messages and to store the data messages in the PIM database on the dual mode mobile communication device.

98. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 94, further comprising a serial port for interfacing the dual mode mobile communication device to a host computer system.

99. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 98, wherein the serial port is used to synchronize data stored within the dual mode mobile communication device with data stored at the host computer system.

100. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 99, wherein the data stored within the dual mode mobile communication device may be synchronized with the data stored at the host computer system over a wireless network in addition to being synchronized using the serial port.

101. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 98, wherein the serial port is used to configure the operation of the device via a software application operating on the host computer.

102. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 98, wherein the serial port is used to load application programs from the host system to the dual mode mobile communication device.

103. (Currently Amended) The apparatus for the dual handheld mode mobile communication device of claim 98, wherein the serial port is used to load an encryption key from the host system to the dual mode mobile communication device to facilitate secure data communications via the data communication interface.

104. (New) A handheld dual mode device operable by a user and capable of voice communication and data communication, said dual-mode device comprising:

a device housing having a front surface and having a longer dimension and a shorter dimension, the longer dimension defining a major axis; and

a keyboard mounted at the front surface of said integrated housing, keys of said keyboard including letter keys that further have numbers associated therewith, the letter keys laid out in QWERTY style.

105. (New) The handheld dual mode device of claim 104 further comprising a display mounted at said device housing, and wherein said keyboard is mounted beneath said display.

106. (New) The handheld dual mode device of claim 104 wherein the keys of said keyboard, laid out in the QWERTY style, are organized into three rows of keys, the keys in each row configured along an arc across a front surface of the device housing.

107. (New) The handheld dual mode device of claim 104 further comprising a speaker, mounted at the front surface of said device housing, above said display.

108. (New) The handheld dual mode device of claim 107 further comprising a microphone mounted at the front surface of said device housing, permitting use by the user pursuant to the voice communication and the data communication while maintaining the device housing in a common orientation.

109. (New) Apparatus for a QWERTY keypad of a handheld mobile communication device keypad having a device face surface, said apparatus comprising:

a first upraised key of the QWERTY keypad, said first upraised key having a first top face and a first side face that intersects therewith, the first side face extending a first height above the device face surface; and

a second upraised key of the QWERTY keypad, said second upraised key having a second top face and a second side face that intersects therewith, the second side face extending a second height above the device face surface, the first side of said first upraised key facing the second side of said second upraised key, the second height different than the first height.

110. (New) The apparatus of claim 109 wherein the first side face of said first upraised key comprises a right side face and wherein the second side face of said second upraised key comprises a left side face thereof, the left side face facing the right side face.

111. (New) The apparatus of claim 10 wherein said first upraised key further comprises a front side face that intersects with the first top face and a rear side face that intersects with the first top face, the front side face shorter than the rear face and the first height of the right side face said first upraised key varying as a function of position between the rear and front faces, respectively.

112. (New) The apparatus of claim 111 wherein the first height of the right hand side face of said first upraised key, measured at an intersection with the front side face is shorter than the second height of the left hand side face of said second upraised key, measured thereacross.

113. (New) The apparatus of claim 110 wherein said second upraised key further comprises a front side face that intersects with the second top face and a rear side face that intersects with the second top face, the front side face shorter than the rear face and the first height of the right side face of said first upraised key varying as a function of position between the rear and front faces, respectively.

114. (New) The apparatus of claim 113 wherein the second height of the left hand side face of said second upraised key, measured at an intersection with the front side face, is longer than the first height of the right hand side face of said second upraised key, measured thereacross.

115. (New) The apparatus of claim 109 wherein said first upraised key of the QWERTY keypad is positioned in a first QWERTY-keypad column and wherein said second upraised key of the QWERTY keypad is positioned in a second QWERTY-keypad column, aligned with the first QWERTY-keypad column.

116. (New) The apparatus of claim 109 wherein the first top face is of a lengthwise dimension greater than a widthwise dimension thereof.

117. (New) The apparatus of claim 109 wherein the second face of said second upraised key is of a lengthwise dimension greater than a widthwise dimension thereof.